

**FACULTY OF HEALTH SCIENCES
DEPARTMENT OF NURSING SCIENCE**



PROGRAMME : B.CUR (Ed et Admin)

SUBJECT : PROFESSIONAL NURSING SCIENCE RESEARCH
METHODOLOGY

CODE : PNS1C10

DATE : NOVEMBER EXAMINATION 2017

DURATION : 2 HOURS

WEIGHT : 50:50

TOTAL MARKS : 80 MARKS

EXAMINERS : MRS L MATSHAKA (UJ)
DR C DOWNING (UJ)

MODERATOR : MS IJ KEARNS (UJ)

NUMBER OF PAGES : THIS PAPER CONSISTS OF EIGHT (8) PAGES

INSTRUCTIONS TO CANDIDATES: ANSWER ALL QUESTIONS. IN YOUR OWN INTEREST, WRITE LEGIBLY. THE EXAMINATION PAPER NEEDS TO BE RETURNED WITH THE ANSWER BOOKS

REQUIREMENTS: CALCULATOR

QUESTION 1

Select the best response for each item. There is only one correct answer. For example: 1.1: d

- 1.1 Phases in the research process includes the following except:
- a. Research problem/question.
 - b. Purpose of research.
 - c. Refining knowledge.
 - d. Review of literature.
- 1.2 The following statement is incorrect regarding nursing research:
- a. It is a scientific approach.
 - b. It focuses on developing knowledge of the care of persons in health and in illness.
 - c. It does not promote evidence based practice.
 - d. Prevents stagnation in practice.
- 1.3 The following is correct regarding a research hypothesis:
- a. Simple hypothesis includes three or more variables.
 - b. It is applicable in qualitative research.
 - c. A null hypothesis states that there is a relationship between two or more variables.
 - d. Causal hypothesis states that there is a cause and effect relationship between variables.
- 1.4 Gender will be an example of a:
- a. Extraneous variable.
 - b. Demographic variable.
 - c. Dependent variable.
 - d. Independent variable.
- 1.5 The following is incorrect regarding human rights:
- a. A claim for a specific right is not restricted to where it will lead to infringement of others' rights.
 - b. A right is a legitimate claim that is independent of cultural preferences.
 - c. Promotes self-responsibility.
 - d. Applies equally to all by virtue of one's status as a human being.

- 1.6 Assent in ethical considerations applies to:
- a. Mothers.
 - b. Adults.
 - c. Children.
 - d. University students.
- 1.7 Offering participants a reward of R2000 for participation in the study in a research study is an example of:
- a. Informed consent.
 - b. Justice.
 - c. Deception.
 - d. Coercion.
- 1.8 The researcher can use any of the following mechanisms to ensure anonymity except:
- a. Produce the list of real names when discussing data.
 - b. Use the code names when discussing data.
 - c. Provide each participant with a number or code name.
 - d. Keep the master list of participants' names and matching code numbers in a safe place.
- 1.9 The following is true regarding research problems:
- a. It must clearly identify the gap or discrepancy.
 - b. It must be a matter of opinion.
 - c. It must exist in a vacuum.
 - d. It must be solved by current knowledge.
- 1.10 The following is incorrect regarding literature review:
- a. Interpretive, organized and written presentation of what the researcher has read on the topic.
 - b. A critical summary of existing knowledge on a topic of interest.
 - c. Does not direct the planning and execution of the study in quantitative research.
 - d. Often prepared for the research problem to be placed in context.

- 1.11 Sampling error is reduced by:
- Increasing sample size.
 - Decreasing sample size.
 - Reducing amount of data.
 - None of these.
- 1.12 The difference between statistic and parameter is called:
- Random error.
 - Sampling error.
 - Standard error.
 - Bias.
- 1.13 Non Probability form of sampling is:
- Random sampling.
 - Non random sampling.
 - Probability sampling.
 - Quota sampling.
- 1.14 Qualitative data analysis process involves:
- Numbers.
 - Statistician.
 - Clustering similar topics together and abbreviating them as codes.
 - Questionnaires.
- 1.15 A list of all the units in a population is called:
- Statistic.
 - Sampling frame.
 - Parameter.
 - Distribution.

- 1.16 Which of the following techniques yields a simple random sample:
- a. Choosing volunteers from an introductory psychology class to participate.
 - b. Listing the individuals by ethnic group and choosing a proportion from within each ethnic at random.
 - c. Numbering all the elements of a sampling frame and then using a random number table to pick cases from the table.
 - d. Randomly selecting schools, and then sampling everyone within the school.
- 1.17 The following is incorrect regarding an oral presentation:
- a. Time is of the essence.
 - b. The literacy of the audience counts.
 - c. The weather is a determinant.
 - d. The presenter must submit an abstract before the presentation.
- 1.18 Measures of central tendency includes the following except:
- a. Frequency.
 - b. Mean.
 - c. Mode.
 - d. Median.
- 1.19 The following is incorrect regarding qualitative research:
- a. Focuses on testing theories.
 - b. Real life setting.
 - c. Focuses on aspects of meaning, experience and understanding.
 - d. Rationale is not to generalise findings, but to understand them in context.
- 1.20 In your research on safety on construction sites you suggest that number of accidents is influenced by the number of safety instructions given at the construction sites. In your research the number of accidents represents the:
- a. Dependent variable.
 - b. Control variable.
 - c. Moderating variable.
 - d. Independent variable.

***[20]**

QUESTION 2

Read the following case study and answer the related questions:

HIV/AIDS is a disease some patients view as a death sentence. Regardless of the many awareness campaigns conducted, patients still find it hard to adhere to treatment. The death rates due to HIV/AIDS are still on the rise in South Africa. Many HIV positive patients still feel that they are being labelled and categorized by the nursing staff and the clinical facilities. They feel un-cared for by the nurses while the nursing staff feels that HIV positive patients must take responsibility of their health. This has often created a dilemma for the patients and the nurses in the City of Ekurhuleni.

- 2.1 State two possible research objectives for the study. (2)
- 2.2 State the research question for the study. (1)
- 2.3 Describe the research design and method you would use to conduct this study. (4)
- 2.4 Describe your population and sampling method procedures for this study. (5)
- 2.5 Describe your data collection methods you would use in this study. (8)

***[20]**

QUESTION 3

- 3.1 Define and calculate the following terms by using the scores below:

12; 10; 7; 12; 9; 8; 5; 11; 6

- 3.1.1 Mode. (2)
- 3.1.2 Median. (2)
- 3.1.3 Mean. (3)

7/...

3.2 You are requested to do an oral presentation in communicating findings for your study. How will you go about in preparing for your presentation? (5)

3.3 A high school in a rural area has announced plans to install close-circuit television cameras in the school toilets to prevent repeated vandalism (e.g. graffiti on the walls, deliberate blockage of basin outlets with toilet paper) and bullying. The principal has indicated that the cameras will only be directed at the hand basins, while no cameras will be installed in any of the individual toilets. However, some of the cameras in the boys' toilets will be directed to the back of boys using the urinals. A few learners have expressed their disapproval of these plans. Also they have indicated a reluctance to use these toilets in the toilets in future.

Ethical considerations are very crucial aspects of research. Describe the ethical principles and rights that the school principal should consider for this research under the following:

3.3.1 Respect for persons. (3)

3.3.2 Informed consent. (4)

3.3.1 Privacy. (1)

***[20]**

QUESTION 4

4.1 Identify the levels of measurement:

4.1.1 The amount of money in your pocket. (1)

4.1.2 The distance travelled to university in kilometres (km). (1)

4.1.3 The marital status of the participants. (1)

4.1.4 The level of satisfaction with nursing care. (1)

4.1.5 The amount of heat in degrees Celsius. (1)

- 4.2 Differentiate between primary and secondary sources and give examples. (4)
- 4.3 Identify the sampling method used in each of the following statements:
- 4.3.1 In an attempt to study the effect of exercise in weight loss, the researcher used the first fifty (50) participants that arrived at gym. (1)
- 4.3.2 Using a table of random numbers, the sample of 100 subjects was selected from a list of patients giving birth in the country during the first 6 months of the year. (1)
- 4.3.3 The researcher selected every 5th patient that entered the post-natal ward in order to study the satisfaction with nursing care. (1)
- 4.3.4 The sample for the study was made up of 50 participants aged between (30 and 35), 50 participants aged between (40 and 45), 50 participants aged between (46 and 50) and 50 participants aged between (50 and 60). (1)
- 4.3.5 The researcher selected breastfeeding teenagers, aged between 17 and 21, that attend a public facility in Region B in City of Johannesburg in order to understand experiences of breastfeeding by teenagers. (1)
- 4.4 Discuss and apply the following principle of trustworthiness in a qualitative study:
- 4.4.1 Credibility. (6)

***[20]**